

COAL AGE

With Which Is Consolidated
The "Colliery Engineer" and "Mines and Minerals"

INDEX TO VOLUME 53

January to December, 1948

NOTE—The articles and references in this index have been classified under leading subjects or topics, as far as practicable, and should be sought under such heads, which, together with all unclassified matter, are arranged alphabetically. Illustrated articles, or cuts standing by themselves, are indicated by an asterisk (*). The subject matter of editorials will be found classified under the subject with which they deal and marked (e). Many titles of articles are abbreviated, the aim being to give prominence to important words.

A

Accidents

- Alabama explosion kills 11, Sept. 158
- Bureau of Mines reports recent explosions, Nov. 160
- Eight miners die in Arkansas blast, Mar. 146
- Eight miners killed in Lehigh Valley blast, Jan. 126
- Law violations charged, Feb. 156
- Explosions mar safety record, F. T. Moyer, Feb. 85
- Indiana mine blast kills 13, Sept. 154
- Investigations completed on two mine accidents, Oct. 150
- Mine tomb may be opened, Aug. 124
- Miner sent to jail for carrying matches, Sept. 151
- Safety Institute speeds accident reports, May 132
- Six miners die in Virginia mine "bump," June 176
- Slate fall on man-trip kills miners at W. Va. mine, Sept. 148
- U. S. coal mine fatalities, Jan. 145
- U. S. coal mine fatalities during 1947, Feb. 85
- Accounting
 - Modern costing helps stripper, J. H. Edwards, Mar. 70
- American Institute of Mining & Metallurgical Engineers
 - Anthracite map project subject at meeting, Dec. 152
 - Anthracite Section establishes student competition, Nov. 154
 - Central Appalachian Section elects officers, Jan. 118
 - Central Appalachian Section holds meeting jointly with West Virginia Coal Mining Institute, Jan. 114
 - Central Appalachian Section meeting, June 142
 - Coals Div. meets with Fuels Div. of A. S. M. E., Dec. 128
 - Mining and Metal Industry session, Mar. 67
 - Report of Pittsburgh meeting, Mar. 116
 - Report of New York meeting, Mar. 106
- American Mining Congress
 - Plans for 1948 convention, Apr. 138
 - Report of 1948 convention, May 138

Anthracite

- Anthracite map project subject at A.I.M.E. meet, Dec. 152
- Anthracite tomorrow, Nov. 74
- Anthracite water study sought in Congress, Feb. 164
- Caravan moves lumber in anthracite tie-up, Nov. 117
- Contracts boost wages, welfare fund, July 115
- Fuel gas to be made from anthracite silt, Apr. 127
- Motion picture features anthracite colliery, Dec. 114
- New anthracite preparation facilities in 1947, Feb. 82
- 1947: Big year for coal, Feb. 74
- Production, Jan. 98, Feb. 130, Sept. 130, Oct. 131, Nov. 126, Dec. 112
- Sixth Lehigh Conference reviews anthracite developments, June 144

- U. S. Engineer sees water periling anthracite mines, Aug. 123
- Water problems discussed by West Virginia Institute, July 130
- Water problem in the anthracite region of Pennsylvania, Otto, Griffiths & Thompson, Oct. 93
- Anthracite Institute
 - Large-scale advertising, Jan. 97
 - Progress report issued, May 180
- Argentina
 - Poland to supply coal, Nov. 160
 - Transportation to boost coal field output is developed, June 202
- Atomic Energy Commission—Reports on power outlook, Sept. 160
- Australia
 - Coal deposits to be developed, Jan. 102
 - Coal miner round the world—Harry Haddow, miner in Australia, Herbert Leopold, May 85
 - Code for labor relations in the coal industry, July 163
 - Development of mines, June 204
 - Government invites foreign experts to advise on pillar extraction, Aug. 170
 - Mechanization of mines to be speeded by importing machinery, Oct. 172
 - Miners to work alternate Saturdays, Nov. 158
- Awards—Company scholarship awarded miner's son, July 118

B

Belgium

- Coal miner round the world—Charles Lhoneux, miner in Belgium, Fred Brewster, May 82
- Big Sandy-Elkhorn Coal Mining Institute
 - Bronze plaques awarded for safety, June 178
 - Meeting, Nov. 118
 - Safety awards made at meeting, Apr. 158
 - Speeds accident reports, May 132
- Bituminous Advisory Council—Council formed, Mar. 103
- Bituminous Coal
 - Basic requirement (e), Sept. 73
 - Better bargaining for coal, Aug. 74
 - The better road (e), Nov. 73
 - "Captive" mines refuse union-shop clause, July 115
 - "Captive" operators sign contract, Aug. 123
 - Consumption, Jan. 98, Feb. 130, Sept. 130, Oct. 131, Nov. 126, Dec. 112
 - Contracts boost wages, welfare fund, July 115
 - Helping coal via public talks, H. C. Woods, May 118
 - New bituminous preparation facilities in 1947, Feb. 82
 - 1947: Big year for coal, Feb. 74
 - Production, Jan. 98, Feb. 130, Sept. 130, Oct. 131, Nov. 126, Dec. 112
 - Scan steel needs of industry, Aug. 164
 - Still unsolved (e), July 73
 - Wage agreement for 1948, July 116
 - Wages still top 158 groups, Dec. 111

Bituminous Coal Research

- Budget increased, Jan. 97
- Gas turbine lent to Locomotive Development Committee, Sept. 140
- Meeting reviews achievements, June 140
- Seeks to develop continuous mining machine, May 135

Blasting

- Conclusions on multiple blasting at West Virginia Institute, July 130
- Fog gun cuts dust and gas after blasting, Aug. 114
- Pennsylvania Bureau draws up blasting rules for anthracite stripping, Oct. 170
- Two-story drill speeds highwall preparation, Apr. 120

Bureau of Mines

- Anthracite activities to be expanded in Pennsylvania, July 120
- Appropriation for mine inspections, Aug. 124
- Bruceton synthetic fuels laboratory dedicated, June 139
- Coking coal reserves to be surveyed, Sept. 162
- Contract signed for second gasification test, July 116
- Engineer sees water periling anthracite mines, Aug. 123
- Equipment approvals issued, Jan. 130, Feb. 142, Mar. 118, Apr. 136, May 142, June 166, July 118, Aug. 144, Sept. 142, Oct. 136, Dec. 130
- Dan Harrington retires, Apr. 128
- Hudson Coal miners receive safety training, Dec. 152
- Lignite laboratory to be started, Sept. 160
- Research planned on coking Washington coal, Nov. 126
- Safety schools opened for miners and officials, Nov. 130
- "Sentinels of Safety" winners, June 196

C

- Calculator reduces payroll errors, Oct. 122

Canada

- British Columbia coal tax abandoned, June 202
- Drive to increase production, Jan. 102
- Fuel situation improved but storage difficulties persist, Oct. 174

Coal

- Bureau of Mines to survey coking coal reserves, Sept. 162
- Coal and defense, Oct. 74
- Coal around the world, Feb. 76
- Coal companies lead Pennsylvania industries, May 136
- Coal for a growing nation, K. C. Richmond, Jan. 58
- Coal loses lead to oil and gas, Sept. 152
- Coal mines of tomorrow (e), June 73
- Coal mine spending will top half billion in '48, June 192
- Coal quality should not be neglected (e), Oct. 73
- Coal and Washington, Dec. 74
- Contract signed for second gasification test, July 116

Helping coal via public talks. H. C. Woods, May	*118
Koppers, Gulf join in synthetic-fuels research, June	195
New diesel-fuel source predicted in Illinois, Sept.	154
1947: big year for coal, Feb.	*74
1947 coal highlights, Feb.	77
Opening and development of the coal mines of tomorrow, June	*74
Still the winner (e), Sept.	73
Coal Age	
Historical summary, Jan.	126
Keystone Coal Buyers' Manual, Dec.	138
Coal Mining Institute of America	
Election of officers, Jan.	110
Report of meeting, Jan.	*128
Report of Pittsburgh meeting, Jan.	104
Culverts kept clear of debris by rails, Feb.	*124
Cumberland Valley Mining Institute Safety meet, Nov.	126
Czechoslovakia	
Deposit of coal found near Lucenec, Nov.	158

D

Drainage

Anthracite water problem. Otto, Griffiths & Thompson, Oct.	*93
Anthracite water study sought in Congress, Feb.	164
Automatic pump equipped for self-priming, Sept.	*122
Automatic siphon valve needs no priming, Jan.	*90
Boreholes replace shaft lines. Benjamin Gleason, Mar.	*76
Coal Mining Institute discusses mine-sealing, Jan.	128
Grant favored for survey of anthracite mine water, Mar.	135
Rubber pipe handles acid water, Feb.	*122

E

Eastern Kentucky Electrical & Mechanical Institute	
First meeting, Apr.	128
Meeting, Nov.	118

Electricity

Battery-maintenance school attended by coal men, Dec.	*150
Better motor maintenance. C. E. Hugus, Oct.	*99
Better service from cables discussed by A.I.E.E., Mar.	67
Cutting-machine control replaced by rod, July	*110
Cutouts and connectors located near shovel, May	*128
D.C. motor tests demonstrated at New River Institute, July	118
Derailment or bent pans actuate fingers to stop conveyors, Oct.	*116
Electrical maintenance check list, Apr.	118
Electrification of the coal mines of tomorrow, June	96
Grounding off-track equipment. J. A. Selter, Sept.	*107
Homestead power distribution circuits, May	*109
Illinois group hears trolley phase in service at mine, Oct.	162
Joint power purchases ruled out in Kentucky, May	136
Kentucky group scans mining cables, June	192
Maumee electrical progress. Bennington & Richart, Oct.	*102
Mining with aluminum cable in Alabama, Nov.	*81
Neon lamps spot blown fuses, Feb.	*120
Pipe protects 2,500-volt cable, Jan.	*74
Power cable lowered with friction blocks, Nov.	*110
Preventing motor damage from phase failure, Apr.	112
Radio phones in stripping. C. A. Osborne, July	*79
Reduced-voltage starting of squirrel-cage motors, Dec.	*98
Safer signaling for shafts. E. B. Wagner, Dec.	*82
Sectionalization at Isabella. Kemp & Baker, Feb.	*102
Short cables used with coupling connectors used at Delmont Fuel, Jan.	*92
Shovel improved by torque limiters, July	*108
Shuttle car discharge controlled by automatic belt dispatching, July	*82
Slip-ring motor speed-torque depends on resistor steps, Oct.	*112
Spring absorbs shocks from cable-reel motor, Jan.	*90
Stripping insulation from large three-conductor cables, Dec.	*108
Exports—Coal export quotas discontinued Sept. 1, Sept.	151

F

Face Preparation

Coal mines of tomorrow, June.	*87
Controlling dust at coal mines. J. J. Gray, Jan.	*76
Locating Airdox compressors — AMC, May	148
Raising machine output through production management. V. C. Stephens, Mar.	*84
Fire extinguishers which are faulty called in by Pyrene, Aug.	162

Foremen

Bawling out workers publicly sometimes right, Jan.	86
Better coal-mine management; procedure and results, Feb.	114
Building leaders via foremen's clubs, July	*74
Additions, Oct.	154
How are you on getting jobs done?, Apr.	112
How good foremanship makes your workers turn in better jobs, Nov.	104
How good orders pay off, Jan.	86
How to make workers more cost-conscious, Mar.	90
How workers reflect attitudes shown by their foremen, June	124
How you can help your men move up to bigger jobs, Sept.	114
Making workers feel important, June.	126
Thirteen mistakes in handling men, July	102
Training for safety. Dr. B. H. Van Oot, Oct.	*77
"Twenty questions" for foremen, Feb.	116
When a foreman should write it down, Nov.	106
Yardstick for discipline, Jan.	86
Forestry for mine timber. H. D. Bennett, Dec.	*90

France

Coal industry is going into a hole, July	160
Coal miner round the world—Jean Scholl, miner in France. Michael Marsh, May	*90
Coal mines work out scheme to buy machinery, Mar.	150
Strike in the coal industry, Nov.	158
Strike of miners on the wane, Dec.	142

Freight Rates

I.C.C. again raises rail freight rates, Sept.	127
I.C.C. boosts rail rates on coal shipments, May	135
Railroads ask I.C.C. to hike coal rates again, Oct.	125
Rates upped; coal haulage a record, Feb.	158
Two added hikes sought in coal freight rates, Nov.	117

Fuel

Coal chemist reviews synthesis processes, May	136
Coal and competition—1946-1947, Feb.	74
Fuel gas to be made from anthracite silt, Apr.	127
Fuel oil crisis mounts; officials cite dangers, Feb.	127
Gasification plant opened by Pittsburgh Consolidation Coal as a pilot plant, Dec.	*112
Gasification plant sought by Washington coal group, Dec.	114
Gasification tests to be resumed soon by Alabama Power and U. S. Bureau of Mines, Mar.	130
Oil industry plan set for possible shortages, Sept.	140
Oil is short, committee warns, Aug.	148
Oil shortage grows; coal supply holds up, Jan.	97
Potentialities studied for synthetic fuels, Nov.	117
Synthetic-fuels program gets three-year funds, Apr.	127

G

Germany

Coal miner round the world—Rudolf Trosien, miner in Germany. J. C. Christie, May	*80
Production in the coal mines, Jan.	102
Ruhr coal control turned over to Germans, Dec.	142
Soviet-blockaded Berlin gets its coal by air, Oct.	*131

Great Britain

Absenteeism fines rejected by union locals, Dec.	142
Annual meeting of mine workers, Aug.	168
Coal miner round the world—Bill Coleman, miner in England. Randle Elliott, May	*86
Diesel locomotives for mines, Sept.	*136
Fluorescent system lights coal face, July	*162
Mine mechanization program, June.	200
Nationalism shows a loss, July	160
Program to step up coal production, Nov.	156

Review and forecast for 1948 coal mines, Jan.	102
Wentworth mine seeks to match American methods, Jan.	*112
Green River Valley Mining Institute—Organized at meeting, Apr.	162

H

Harlan County Coal Operators' Assn. meeting, Nov.	130
--	-----

Holland

Coal miner round the world—Adrianus Roelands, miner in Holland. Paul Catz, May	*92
---	-----

I

Illinois Dept. of Mines and Minerals—Cruse named to head bureau, Apr.	127
Illinois Mining Institute	
Report of meeting, Dec.	124
Scholarship set-up clarified, Sept.	152

India

Coal miner round the world—Gakhali Turi, miner in India. J. K. Van Denberg, Jr., May	*94
Research to utilize coal reserves, June.	202
Indiana Coal Conference—Conference discusses preparation and utilization, Nov.	128
Indiana Coal Producers grant Purdue fellowship, Dec.	144

J

Japan

Coal miner round the world—Masao Ando, miner in Japan. A. W. Jessup, May	*84
Jet-piercing—new stripping aid?, Nov.	*86

K

Kentucky Mine Rescue Assn.—First meeting, June	195
Kentucky Mining Institute	
Election of officers, Jan.	126
Report of Lexington, Ky., meeting, Jan.	*122

L

Labor

Better bargaining for coal, Aug.	*74
Bituminous coal wages still top 158 groups, Dec.	111
Bituminous wage negotiations ordered resumed, June	139
Captive mine contract hit by NLRB counsel, Oct.	125
"Captive" operators sign contract, Aug.	*123
The coal miner round the world, May.	*74
Frank Krulick—U. S. A., May.	*77
Grover Rosenbaum—U. S. A., May.	*78
Rudolf Trosien—Germany, May.	*80
Charles Lhoneux—Belgium, May.	*82
Masao Ando—Japan, May.	*84
Harry Haddow—Australia, May.	*85
Bill Coleman—England, May.	*86
Michael Pazdzlernik—Poland, May.	*88
Jean Scholl—France, May.	*90
Adrianus Roelands—Holland, May.	*92
Gakhali Turi—India, May.	*94
Gerasim Zaporozhets—Russia, May.	*95
Coal needs young men—AMC, May.	145
Coal town doctor quits on racial issue, Aug.	146
Consolidation Coal Co. crew loads 1,536 tons, Oct.	*186
Contract boosts wages, welfare fund; "captive" mines refuse union shop clause, July	115
First miner pension paid by Elk River Coal, Nov.	130
First pension payment made from U.M.W.A. fund, Oct.	*125
Handling disputes at the mine. V. B. Stith, Mar.	*58
How workers reflect attitudes shown by their foremen, June	124
Lewis cancels contract, sets negotiation date, May	135
Lewis proposes share-the-work plan; U.M.W.A. outlines new demands, Nov.	117

Miners' trial to start in Virginia, July...	118
Much haste—little speed, Carl Cook, June	126
NLRB delays hearing on union shop, Sept.	127
NLRB charges union forces men to join, Aug.	146
Order requiring U.M.W.A. to bargain with Southern Coal Producers' Assn. dissolved, Dec.	144
Panther Valley miners end nine-day walkout, Sept.	162
Peerless Coal files complaints charging unfair labor practices, Oct.	166
Pension developments, Apr.	127
Pensions for non-union workers given by Reitz Coal Co., Dec.	144
Pensions or power?, Apr.	74
Retirement-plan benefits improved, Nov.	128
Silicosis victim wins unemployment pay, May	136
Trend and need (e), Dec.	73
U.M.W.A. quits A.F.L., Jan.	97
Virginia miners get suspended sentences, Aug.	162

Law and Legislation

Kentucky House passes new strip law, Apr.	128
Kentucky Senate gets strip, deep-mine bills, Mar.	146
Kentucky strip bill dies in committee, Feb. 154, June.	180
Lewis asks Dewey to oppose Taft-Hartley Act, Aug.	123
Ohio court denies claim for coal in highway cut, June	195
Ohio strip mine law challenged by operators, Feb.	162
Pennsylvania's borough's anthracite strip law is voided, Apr.	164
Pennsylvania strip law upheld in state court, Feb.	152
Lignite—Bureau of Mines plans early start on lignite laboratory, Sept.	160

Loaders—See Mechanization**M****Maintenance**

Belt selection and installation, J. H. Edwards, Oct.	*80
Belt winder facilitates conveyor moves, Sept.	*122
Cleaning greasy parts without hazard, June	*132
Cutting rubber rings, Dec.	*106
Hard-facing churn-drill bits, Oct.	*118
How are you on maintenance?, Aug.	110
Hose leaks located with portable tank, Apr.	*118
Keeping rock drills fit, Mar.	*94
Lamp-battery washer cuts time and maintenance, Jan.	*88
Machines and parts cleaned in shop, Feb.	*120
Maintenance and supply systems at the coal mines of tomorrow, June.	*102
Making an auxiliary pipe connection without draining the water system, Dec.	*102
More from wheels and axles, F. W. Richart, Aug.	*105
Pump repairs simplified, Apr.	*116
Shop-built press handles all jobs, Jan.	*90
Shovel's circle rails changed in three days, Sept.	*118
Simple steps in hard-facing, Mar.	*106
Spring-suspended grinder, Feb.	*120
Steps to better maintenance—AMC, May	150
Shop modernization at Vesta, J. H. Edwards, July	*92
Tall chimney and hood confines forge fumes, Jan.	*92
Wheels salvaged by grinding, Sept.	*124
Wrecker-service truck works night and day, Apr.	*124

Management

Better coal-mine management: procedure and results, Feb.	114
Building leaders via foremen's clubs, July	*74
The good boss, Jan.	84
How you can help your men move up to bigger jobs, Sept.	114
Production management, V. C. Stephens, Mar.	*84
Marshall Plan—Coal-mining machinery to be exported from the U. S., May	135
McGraw, James H., founder of McGraw-Hill Publishing Co., dies, Mar.	*104

Mechanization

Bulldozer handles many jobs underground, May	*132
Concentrated trackless mining at Sunnyside, Dec.	*92
Consolidation Coal doubles efficiency at Owings mine with new facilities, J. H. Edwards, May	*114
Continuous mining machine unveiled by the Sunnyside Coal Co., Dec.	*84
Cutting-machine control replaced by rod, July	*110

Duckbill working cycles, B. F. Gish, May	*102
Early need (e), Dec.	73
How to operate a loading machine safely, Roy Schell, Aug.	110
Hydraulic controls of mining equipment discussed by Mining and Electrical Group, Apr.	*132
Low loaders serve new mine, J. H. Edwards, Mar.	*62
Machine era spreads in coal, Feb.	*80
Mechanical loading of the coal mines of tomorrow, June	*82
Middle Creek mine in Kentucky has high efficiency, Aug.	*80
Mining with power duckbills, Kenneth Snarr, Feb.	*96
Modernization program at Simpson Creek, J. H. Edwards, Apr.	*78
New cutter control saves time, June	*128
New loader works thin seam, Jan.	*80
Opening and development of the coal mines of tomorrow, June	*74
Raising machine output through production management, V. C. Stephens, Mar.	*84
Sales of loaders and cleaners, Young & Anderson (tables), Feb.	87
Southport mine ups Oregon capacity, F. W. Hilton, Mar.	*78
Spider slues duckbill automatically, Dec.	*106
Tandem units boost dragline efficiency, R. T. Richart, Feb.	*90

Mine Inspectors' Institute Convention at Columbus, July	*136
Election of officers, July	*136
Mining Electrical Group Exhibit in Illinois, Dec.	118
Hydraulic control of mining equipment discussed, Apr.	*132

Mining Methods

Auger mining ups coal recovery, Dec.	*76
Boreholes replace shaft lines, Benjamin Gleason, Mar.	*76
Concentrated trackless mining at Sunnyside, Dec.	*92
Duckbill working cycles, B. F. Gish, May	*102
Efficiency through time study, V. C. Stephens, Apr.	*105
High extraction with duckbills, J. W. Perfater, Sept.	*94
Island mining with shakers, Oct.	*86
Low loaders serve new mine, J. H. Edwards, Mar.	*62
Middle Creek mines in Kentucky has high efficiency, Aug.	*80
Mining with power duckbills, Kenneth Snarr, Feb.	*96
Modern mining at Gorgas, Sept.	*80
Modernization program at Simpson Creek, J. H. Edwards, Apr.	*78
Moving controls save time, Nov.	*110
New Black Diamond mine, Nov.	*90
Opening and development of the coal mines of tomorrow, June	*74
Shaker mining under tender top at Eagle, Dec.	*78
Spider slues duckbill automatically, Dec.	*106
Trackless mining at Wattis, Nov.	*78
Tunnels reopen old sections, Minersville, Pa. R. R. Richart, Apr.	*98

Models Lillybrook mine tippie model, Sept.	*138
Working-place model, Sept.	*138

N

National Coal Assn. Air pollution committee appointed, Dec.	111
Coal heating booklet, Dec.	148
Industry economic study published, Sept.	27
"No accidents" flag sent to members, Dec.	*114
Report of convention, Nov.	*132
Safety Division established, Mar.	103
National Safety Congress plans mining sessions, Oct.	160
National Safety Council—Coal Mining Section meets, Dec.	*126
Natural Gas—Permit granted to boost big and little inch lines, June	176
New River & Winding Gulf Electrical & Mechanical Institute—D.C. motor tests demonstrated, July	118
New developments Jan. 28, Feb. 140, Mar. 103, Apr. 144, May 172, June 170, July 120, Aug. 158, Sept. 145, Oct. 156, Nov. 120, Dec.	132

O**Oil—See Fuel**

Oil Burners—Sales in 1948, May	136
--------------------------------	-----

P**Personals**

Ache, Geo. W., Jr., Feb.	134
Adams, Chas. L., Apr.	154
Adams, R. L., May	170
Aitken, Thos. L., June	*184
Allar, E. J., May	170
Allen, O. F., Feb.	136
Amos, Frank R., May	166
Anderson, Robt., June	186
Arbury, A. F., Jan.	100
Arnett, L. L., Apr.	154
Asman, A. W., Nov.	120
Ault, James G., Aug.	152
Baker, J. M., Mar.	114
Barber, Hubert, Nov.	118
Barker, M. R., July	124
Barnett, Howard, May	170
Bates, Sam, Feb.	130
Baugh, M. Edw., Nov.	120
Bazley, J. R., May	166
Bentley, M. V., Dec.	118
Berry, Frank L., Sept.	130
Berry, "Jack," Sept.	132
Blanton, Bert, June	182
Booker, Edmund W., Sept.	128
Bowers, J. G., May	168
Bowman, John E., May	166
Boyd, J. T., May	172
Brabant, P. H. G., May	172
Bremner, Robert P., Nov.	120
Bromley, W. K., Feb.	138
Brown, Harry C., Sept.	132
Brown, Dr. Ralph L., Mar.	112
Buchanan, D. W., May	170
Buchanan, D. W., Jr., May	170
Bunch, Isom, Apr.	154
Camacia, N. T., Nov.	120
Campbell, G. F., May	170
Canic, Roy, Oct.	126
Card, C. A., June	182
Carson, G. O., Apr.	152
Carter, Howard, May	170
Cassell, H. A., Aug.	152
Castaoli, A. F., Sept.	130
Chandler, John R., Feb.	138
Chapman, J. S., Mar.	124
Childers, Thos. H., July	124
Christ, Elmer, Apr.	152
Collier, M. D., Apr. 154, May	168
Collins, R. J., June	182
Comer, Raymond, May	168
Conner, C. W., Jr., Feb.	134
Connor, W. E., Feb.	130
Conrad, A. B., Feb.	136
Cook, James M., Mar.	112
Core, Jesse, Feb.	130
Cothern, L. L., Dec.	118
Coy, Wm. O., June	182
Crawford, Willard J., Jan.	100
Craighead, S. J., Feb.	130
Cruse, Robert R., Apr.	127
Cunningham, J. H., July	168
Cunningham, W. E., May	124
Dameron, Matthew, July	184
Dann, Carl, June	184
Dardi, John B., Dec.	118
Darst, Guy B., Mar.	112
Daugherty, R. D., Dec.	118
Davidson, A. R., June	186
Davis, T. J., Apr.	154
Davis, Walter, Jan.	100
Deike, Geo., July	124
DeMoss, A. O., July	124
Denny, R. C., Apr.	154
DePietro, M. A., July	124
DePietro, Michele, Jr., Nov.	118
DeSimone, Victor, June	184
Diamond, Wm., Nov.	118
Dierks, Henry A., Jan.	100
Elkins, J. E., Feb. 134, Sept. 128, Nov.	118
Estill, Robert R., Dec.	120
Eubanks, Frank, May	170
Evans, Evan, Feb. *130, Apr.	*152
Evans, Harry J., May	172
Evans, M. O., Apr.	152
Evans, W. L., Nov.	120
Everett, Wm. W., Jan.	100
Eynon, W. E., Nov.	120
Fancourt, W. C., Mar.	114
Fink, Ray, May	170
Finley, John, May	170
Flint, Lester, Feb.	136
Flint, Wannie, Sept.	132
Forbes, J. J., May	126
Ford, Harold D., July	126
Foster, John J., Nov.	118
Foulger, A. B., Aug.	154
Fritts, B. B., Dec.	118
Gaggini, Louis, Mar.	114
Gallagher, W. A., Feb.	134
Gardner, John, May	168
Garland, Accl, July	124
Gemondo, Jas., May	168
German, Wm. J., Dec.	120
Gealey, E. J., Oct.	131
Geyer, J. N., July	124
Gibson, Clyde, May	166
Gill, Wm., May	170
Glendenin, G. W., Mar.	112
Glessner, F. V., May	170
Goldsworthy, Albert, Sept.	128
Gray, James C., Sept.	128
Green, E. E., May	170
Grundy, G. W., July	124
Guiney, Wm., Oct.	126
Haake, Don R., July	124
Hall, H. C., June	182
Hall, Milburn, Dec.	118
Hammer, L. J., Sept.	132

Haney, C. E., Dec.	118
Hannigan, Chas. J., July	124
Hare, Wm., Feb.	138
Harrington, Dan, Apr.	*128
Harrington, Dan, earns special Holmes award, Aug.	166
Harris, Alva S., June	186
Harrison, Wilson, Feb.	136
Haskell, P. H., Jr., Mar.	114
Haslam, Wm., Nov.	118
Hatfield, Chas., July	126
Hatfield, J. W., Dec.	118
Heiner, Claude P., Aug.	152
Helm, D. C., Feb.	130
Hensley, Theodore, Sept.	132
Hendon, Chas. E., Sept.	130
Hetrick, L. E., May	168
Hicks, F. V., Mar.	112
Higinbotham, G. R., May	166
Hobart, R. E., Feb.	130
Holland, Chas. T., Dec.	118
Horn, Henry (Red), Dec.	118
Hornshy, Walter, Jan.	100
Howard, H. E., Sr., July	124
Howe, R. E., Aug.	152
Howells, Arthur, Nov.	120
Hughes, John C., Dec.	118
Humphrey, E. P., Feb.	134
Humphrey, J. M., Nov.	120
Husk, Wm. L., Feb.	130
Hutchenson, Cliff, Dec.	118
Ingle, Bradford, June	186
Ingle, David, Jr., June	186
Ingle, Kenneth R., June	186
Ingle, W. D., June	186
Ireland, M. B., Feb.	136
Ison, Roy A., Feb.	134
Jack, Alexander, June	*184
Jackson, T. C., Dec.	120
Jenkins, Wm. G., Feb.	138
Jennings, Oscar, Sept.	132
Johnson, Walter J., Dec.	118
Jones, Dewey, May	166
Jordan, Gene, July	124
Kain, Frank, May	168
Kane, C. O., Mar.	112
Keeler, E. R., June	182
Ketchel, John P., Feb.	138
Kiewit, A. L., July	126
Kinnell, Kenneth K., Feb.	134
Kipple, Fred L., Jan.	100
Kirk, Joe, Dec.	118
Kirk, Nathaniel, Oct.	126
Kirkman, John, Sept.	132
Kitchin, G. E., Oct.	131
Koenig, Robert P., Oct.	126
Konkoly, John J., Feb. 136, May	168
Koper, Fred G., May	172
Kratz, Geo. W., July	124
Kudlich, F. Edgar, Jan.	100
L'Argent, Neely C., Feb.	136
Laird, Wm., Mar.	114
Lamb, Earl W., Feb.	130
Lank, C. B., Jan.	100
Lauterbach, G. W., Oct.	126
Lawrence, Joseph E., Apr.	154
Lawson, Rex, Dec.	118
Lazzell, R. Glenn, Nov.	118
Lee, Hugh B., May	166
Lewis, Howard, May	170
Lewis, Robert S., Sept.	128
Light, Jack, Sept.	130
Lilly, Raymond P., Dec.	118
Lindley, John, Oct.	131
Linkous, C. E., Feb.	136
Little, Lester, May	170
Logue, Raymond, Sept.	130
Longauer, Fred J., Feb.	138
Lowe, H. W., Aug.	152
Lutz, Ed R., May	170
Mabe, W. W., Mar.	114
Mallik, Walter, June	184
Mancini, Peter V., Sept.	132
Mancos, Wm. O., Dec.	118
Marcuzzi, Geellie, Dec.	118
Maurer, Wm. D., Apr.	152
Maxey, Paul R., Nov.	120
McAlarney, Alex, May	170
McAuliffe, Eugene, Feb.	*130
McCa, Geo. W., Feb. 130, 136, May	168
McCall, J. F., Apr.	152
McCoart, Patrick, June	186
McCormick, M. M., June	186
McGraw, Peter W., Sept.	130
McKenzie, Herbert, May	170
McKim, James, Dec.	120
May, Chas. R., Feb.	136
Mays, Harold R., Feb.	138
Mechling, Monroe J., Feb.	138
Mick, Ralph J., Sept.	130
Miller, Argie, Sept.	132
Mills, Joseph, May	166
Mitchem, Thos., Nov.	118
Monks, W. E., Nov.	118
Monteith, R. M., June	182
Montz, H. W., Nov.	120
Mooney, D. A., Mar.	112
Morrow, J. B., Mar.	112
Mounts, Greenway, Dec.	118
Muir, Robert, July	124
Mullins, Kenneth, Dec.	118
Mullins, Victor, Feb.	136
Nichols, Jos. B., Feb.	138
Nolton, Raymond, May	170
Oakley, A. E., Nov.	120
Oliver, Wm., May	166
Palmer, W. S., May 168, July 124, Nov.	120
Pape, D. H., Jan.	100
Partney, Jos., Dec.	120
Parton, W. J., Feb.	130
Patterson, A. T., July	*126
Paulick, Paul H., July *126, Oct.	131
Pettry, K. D., June	186

Phalan, Jas. H., ????	126
Phillips, J. H., Apr.	154
Pierce, James H., Nov.	120
Pinkney, H. D., Aug.	152
Pisula, J. T., Feb.	130
Potter, Chas. J., June *182, Dec.	*118
Powell, Albert, Feb.	136
Powell, R. E., Sept.	128
Preston, H. W., June	186
Pritchard, W. E., Dec.	118
Provost, John M., July	124
Pullen, Leslie W., Sept.	130
Ramey, Russell, Dec.	120
Ramsey, E. W., Sept.	130
Reed, B. F., Mar.	112
Reese, James G., Jr., Dec.	120
Reichl, E. H., July	126
Reitz, J. H., Apr.	152
Reynolds, W. L., Feb.	136
Rhodes, Wandel, July	124
Richards, French, Sept.	130
Rickert, Elwood, Feb.	130
Riddle, Frank W., Mar.	114
Riffe, H. L., Apr.	154
Riggs, L. H., May	168
Ritchie, James, June	186
Ritter, Wm. M., Feb.	130
Robertson, Grover, Mar.	112
Rose, Henry C., Mar.	112
Roward, C. V., Feb. 136, May	168
Rowe, Edwin, May	168
Ruth, H. Merton, Jan.	100
Sanford, H. A., Feb.	138
Sarsfield, J. A., July	124
Scanlan, Driscoll, Jan.	100
Scarborough, E. J., May	170
Schickendantz, Walter, June	186
Schnee, G. A., Apr.	152
Schooler, D. R., Aug.	154
Sciranko, Mike, July	126
Shackelford, Henry, Sept.	132
Shanholz, R. W., May	168
Shank, Walter C., Mar.	114
Sherbs, R. M., May	168
Shields, Paul, Dec.	118
Shields, Paul L., Jan.	100
Shoemaker, G. A., Mar.	112
Shomper, H. E., Apr.	154
Shopkinski, Ray, May	170
Sick, A. D., July	124
Skeans, John M., Dec.	118
Skiba, Joseph, Oct.	131
Smith, Hewitt, Apr.	134
Smith, John W., June	186
Smith, Robt. N., June	186
Smith, W. C., June	182
Snoberger, R. E., July	124
Snow, H. A., Aug.	152
Snyder, L. C., May	170
Sorrent, D. T., Mar.	112
Spindler, G. R., May	172
Stapleton, Herbert, Dec.	118
Steele, Orville, July	124
Steele, Thos. F., Sept.	130
Stephenson, Chas., Aug.	152
Stephenson, John, Apr. 154, Sept.	128
Stern, F. W., Feb.	130
Stewart, Jake, July	124
Stone, Norton, Dec.	118
Strunk, G. A., May	170
Strunk, Thurston, Dec.	118
Sturgill, Roy, Sept.	132
Summers, M. W., June	182
Swihart, Harry, Mar.	112
Tapert, Harold A., Jan.	100
Taplan, T. E., June	186
Thatcher, Virgil, July	124
Thern, John, July	124
Thomas, D. A., Aug.	152
Thompson, C. W., Nov.	118
Thompson, James G., Sept.	130
Thompson, Ralph, Dec.	118
Tobey, Jas. G., Aug.	152
Towers, John, Sept. 128	130
Trevorrow, Geo. C., Nov.	118
Truax, Jas. H., Sept.	128
Trusley, James F., Mar.	112
Turk, Mathew, Jan.	100
Utterback, G. H., May	170
Valeri, Martin, May	166
Van Gregory, Mar.	114
Van Pelt, Lloyd L., Feb. 136, May	168
Varney, Flody G., July	124
Varner, Luther, Sept.	132
Vincil, Coy Frank, Dec.	118
Virgin, C. C., Apr.	152
von Stroh, Gerald, Sept.	130
Wagner, E. B., Nov.	120
Walker, Chas. E., Nov.	118
Wall, J. K., Dec.	118
Walsh, Anthony W., Feb.	138
Ward, J. C., Sept.	132
Warriner, J. B., Feb.	130
Watson, M. M., July	124
Watson, Paul E., Sept.	130
Webb, Arlie	154
Webb, Homer E., Mar.	112
Weyman, Edwin A., Feb.	130
Whelan, J. W., May	168
White, Clyde, Feb.	136
Wickey, H. B., May	168
Williams, John A., Feb.	138
Williams, Wm. G., Apr.	152
Williamson, R. B., Dec.	118
Wills, Howard, May	168
Willsee, C. E., Apr.	152
Wilson, George, June	182
Wilson, R. B., Aug.	152
Wimpfen, Sheldon P., Feb.	138
Woomer, J. W., May	172
Woolman, B. Arnold, Sept.	130
Wright, Allard, Sept.	132
Wright, B. A., Sept.	130
Wright, Ballard J., Sept.	128

Wright, Edgar, Feb.	136
Yeloushan, Paul, Sr., Apr.	152
Younkins, J. A., Feb. 130,	134
Zachar, F. R., May 166,	168
Zegeer, D. A., Feb.	136
Zickefoose, Paul, Sept.	130
Zimmerman, Felix, May	170
Zimmerman, R. E., July	124
Zuspan, Edgar L., Feb.	136

Poland

Coal miner round the world—Michael Pazdziernik, miner in Poland, Elizabeth Fisher, May	*88
Portal construction of quonset huts. George Keat, May	*96

Preparation

Coal preparation at the coal mines of tomorrow, June	*118
The crisis in strip mining. E. H. Mar-rus, Dec.	*88
Fine coal tabled and dried. R. E. Zimmerman, Jan.	*84
Heavy medium in the Baum jig. B. M. Bird, Feb.	*107
Homestead Coal Co. preparation. Gilbert & Richart, May	*106
Improved steam table speeds drying of samples, Dec.	*102
Job for now (e), May	73
Modern mining at Gorgas, Sept.	*80
New anthracite preparation facilities in 1947, Feb.	84
New bituminous preparation facilities in 1947, Feb.	82
New Black Diamond mine, Nov.	*90
New preparation methods—AMC, May	130
Oil treatment of coal. G. W. Waters, Nov.	97
Paddle switch protects vibrating screen, Dec.	*106
Permanent magnets for coal. F. E. Parke, Aug.	*102
Preparation facilities, Jan. 138, Feb. 168, Apr. 166, May 184, June 210, July 134, Sept. 156, Oct. 180, Nov. 162, Dec. 182	
Primary crusher facilities sampling, Oct.	*118
St. Nicholas Central Breaker's water clarification insures quality production. Swartz & Richart, Aug.	*94
Sales of loaders and cleaners. Young & Anderson (tables), Feb.	87
Special elevator cleans out boots. Nov.	*114
Truck tippie features one-man operation, May	*128
Washery small but efficient, Brophy Coal Co., Sept.	*98
Public Relations—Helping coal via public talks. H. C. Woods, May	*118

R

Railroads

Baltimore & Ohio R.R. to rebuild 2,000 coal cars, Nov.	156
New coal and ore dock at Toledo, Sept.	*130

Research

Anthracite laboratory being built at Schuylkill Haven, Dec.	146
Bruceton synthetic fuels laboratory dedicated, June	*139
Bureau of Mines to expand anthracite activities in Pennsylvania, July	120
Koppers, Gulf join in synthetic-fuels research, June	195
North Dakota University gets lignite laboratory, May	180
U. S. Bureau of Mines plans research on coking Washington coal, Nov.	126
Rocky Mountain Coal Mining Institute Election of officers, Aug.	128
Report of meeting, Aug.	*126

Roof Control

Caravan moves lumber in anthracite tie-up, Nov.	117
Concentrated trackless mining at Sunnyside, Dec.	*92
Double U-type pins support crossbars, Jan.	*94
Making the roof safe. Don Couch, July	104
Mine timber through forestry. H. D. Bennett, Dec.	*90
Modern mining at Gorgas, Sept.	*80
Shaker mining under tender top at Eagle, Dec.	*78
Suspension roof control. Edward Thomas, July	*86
Timber stoppage threatens coal output, Feb.	154
Tunnels reopen old sections, Minersville, Pa. R. R. Richart, Apr.	*98
Water powers timber jack, Dec.	*104

Russia

Coal engineers to be trained, Jan.	102
Coal industry's five year plan, Mar.	150
Coal miner round the world—Gerasim Zaporozhets, miner in Russia. Andrew Steiger, May	*96
Coal situation, Oct.	176
First "walking excavator," June	202
Gasification of coal, July	161
Port of Settlin to handle coal from Poland, Aug.	170

S

Safety

Adapting bugbusters—AMC, May.....	146
Ambulance car built for patient's comfort, Mar.	*96
Anthracite industry sets new safety mark, Oct.	162
Anthracite safety honors taken by Reppier team, Sept.	*136
Automatic mine door, Oct.	*120
Belt conveyor safety, June	*136
The big question, C. P. Ferguson, Jan.	84
Buckingham Coal Co. wins state safety award, Apr.	164
Bureau of Mines establishes new honor certificates, Dec.	111
Choosing a safety director, P. W. Graft, July	*98
Coal Miner's Accident and Safety Meet, Sept.	*167
Coal Mining Institute discusses safety, Jan.	128
Concrete sand boxes used at Owings mine, May	*116
Cutting haulage accidents, J. J. Plasky, Aug.	112
Cutting-machine safety, June	126
Derrailment or bent pans actuate fingers to stop conveyor, Oct.	*116
Dust control at coal mines, J. C. Gray, Jan.	*76
Exhaust hoods protect sand-drying personnel at Loree, Nov.	*112
Fire-fighting pump easily moved, Oct.	*116
First aid contests planned for anthracite region, July	118
Fog gun cuts dust and gas after blasting, Aug.	*114
Grounding off-track equipment, J. A. Setter, Sept.	*107
Harlan County Coal Operators' Assn. holds safety contest, Nov.	130
Holmes Safety awards presented, May.	182
Holmes award to Dan Harrington, Aug.	166
How to operate a loading machine safely, Roy Schell, Aug.	110
Hudson Coal miners receive safety training, Dec.	152
Human safety gadget; rule enforcement, Jan.	84
Illinois laboratory to test mine gases, Feb.	157
Illinois Mines Bureau gets mine rescue trucks, Sept.	164
Investigations completed on two mines accidents, Oct.	150
Jermyn-Green Coal Co. and Kehoe-Berge Coal Co. lauded for safety work, Mar.	130
Kentucky champions picked in safety meet, Dec.	*122
Mine Inspectors scan safety methods, July	*136
Mine safety at the coal mines of tomorrow, June	*114
N.C.A. sends members "no accidents" flag, Dec.	*114
Ohio Safety Congress—Wheeling Township wins meet, May	*164
"P & R Pete" safety cartoon, Sept.	*75
Pennsylvania Bureau to press anthracite smoking ban, Oct.	168
Pennsylvania State Safety Day and First-Aid Contest, Nov.	130
Pipe protects 2,300-volt cable, Jan.	*74
Pond Creek miners win 100 percent first-aid certification, June	196
Putting across safety ideas, July	104
Quonset portal construction, George Keat, May	*96
Safe drilling, Roy Schell, Mar.	92
Safer signaling for shafts, E. B. Wagner, Dec.	*82
Safety schools opened for miners and officials, Nov.	130
Selling safety to the miner, W. A. Stanbury, Jr., Sept.	*74
Shields on switch throws minimize rope accidents, Sept.	*122
Silicosis cure hope reported by U.M.W.A., Nov.	126
Slope rope safety grip protects car hitching, Feb.	*124
Spring absorbs shocks from cable-reef motor, Jan.	*90
Stopping unsafe acts, Sept.	116
Summer safety drive in Beckley area, July	134
A super writes a safety letter, P. A. Grady, Mar.	92
Tall chimney and hood confines forge fumes, Jan.	*92
Teamwork for safety in the Beckley, W. Va. field, W. A. Stanbury, Jr., Apr.	*92
Ten commandments of a safe worker, Nov.	106
Training for safety, Dr. B. H. Van Oot, Oct.	*77
Truck safety blocks locked in place, Apr.	*122
Union Pacific mine sets new safety mark, Mar.	*114
Virginia agency approves group hospital plan, June	188
Welfare Fund plans miners' hospital, Aug.	164
West Virginia Bureau seeks cut in roof-fall accidents, Oct.	164
West Virginia to spend \$30,000 for mine safety, June	158
Winter brings extra hazards (e), Nov.	73
Year's safety report made to Congress, Oct.	160
St. Lawrence Seaway faces tough battle, Feb.	157
Silicosis cure hope reported by U.M.W.A., Nov.	126
Smoke Abatement	
National Coal appoints air pollution committee, Dec.	111
Pittsburgh smokeless-coal plant nearing completion, Oct.	*132
South Africa	
New mines being developed, June.	202
Transvaal to supply coal to New Zealand, Aug.	168
Southern Appalachian Industrial Exhibit, Oct.	*132
Steel production at peacetime high, Feb.	152
Stoves and Stokers	
Anthracite stoker makers pledge high output, Mar.	160
Anthratube exhibited by Philadelphia bank, Dec.	*114
Anthratube output to be stepped up, Sept.	154
Anthratube to be pushed by special advertising, Oct.	170
Stripping and Dredging	
Boroughs anthracite strip law is voided in Pennsylvania, Apr.	164
Concentrated stripping, J. H. Edwards, Aug.	*84
The crisis in strip mining, E. H. Mar-rus, Dec.	*88
Injunction sought to halt tax on stripping units, Sept.	142
Island mining with shakers, Oct.	*86
Jet-piercing—new stripping aid?, Nov.	*86
Kentucky Senate gets strip, deep-mine bills, Mar.	146
Kentucky House passes new strip law, Apr.	128
Machine era spreads in coal, Feb.	*80
Maumee electrical progress, Bennington & Richart, Oct.	*102
Modern costing helps stripper, J. H. Edwards, Mar.	*70
Ohio coal man presents strip farm to club, Nov.	117
Ohio strip mine law challenged by operators, Feb.	162
Pennsylvania Bureau draws up blasting rules for anthracite stripping, Oct.	170
Pennsylvania shapes plans for school in anthracite stripping, Apr.	130
Pennsylvania strip laws upheld in state court, Feb.	152
Pennsylvania strippers start reclamation school, Mar.	150
Pennsylvania townships to limit stripping, Sept.	145
Radio phones in stripping, C. A. Osborne, July	*79
Seedlings planted on strip-mine land, Sept.	164
Shovel and dragline stripping, Log Mountain seam, Sept.	*102
Shovel improved by torque limiters, July	*108
Strip-land reclamation—AMC, May.	154
Strip mining at the coal mines of tomorrow, May	*106
Strip ordinance upheld in Kentucky, Feb.	154
Strip progress accelerated, Jan.	*70
Tandem units boost dragline efficiency, R. R. Richart, Feb.	*90
Tractor loader a versatile pit unit, Aug.	*118
Two-story drill speeds highwall preparation, Apr.	*120
Union pickets seek to organize strippers, Mar.	142
Wingert Contracting reworks old pits, Apr.	*86
Subsidence — Borough of Kingston, Pa., awarded damages in subsidence damage suit, Feb.	164
Supplies	
Distribution of supplies with pony and sled in Williams mine, Kenneth Snarr, Feb.	96
Guessing contest on supply costs, Mar.	90
How to make workers more cost-conscious, Mar.	90
Maintenance and supply systems at the coal mines of tomorrow, May.	*102
Pennsylvania townships act to tax coal mined, Feb.	160
Time and Motion Study	
Efficiency through time study, V. C. Stephens, Apr.	*105
Production management, V. C. Stephens, Mar.	*64
Training	
Coal Mining Institute—Report on meeting, Jan.	*128
Pennsylvania shapes plans for school in anthracite stripping, Apr.	130
Summer mining sessions at St. Francis College, July	116
Training for safety, Dr. B. H. Van Oot, Oct.	*77
Transportation	
Air-powered gates facilitate loading at headhouse, Jan.	*94
B & O Ry opens new Lorain coal dock, June	*180
Battery-powered car helps officials get round, June	*128
Belt conveyor safety, June	*136
Belts cut labor cost—AMC, May.	142
Belt selection and installation, J. H. Edwards, Oct.	*80
Belt winder facilities conveyor moves, Sept.	*122
Britain orders diesel locomotives for mines, Sept.	*136
Bulldozer's rubber tires protect coal, Apr.	*122
Car chafes while belt runs, Aug.	*116
Car stop features reliability and easy application, Oct.	*122
Low-coal scooter, Oct.	*120
Coal mines of tomorrow, June.	*93
Coal stored underground beats car shortage, Mar.	*98
Coil spring reduces strain on trailing cable, Apr.	*116
Cutting haulage accidents, J. J. Plasky, Aug.	112
Dual-duty locomotives at Consolidation, Apr.	*96
"Goesinto" helps officials get round, June	*128
Grease fitting added to brake turn-buckle, Oct.	*120
Haulage helps at New Jellico, Aug.	*92
High extraction with duckbills, J. W. Perfater, Sept.	*94
How to improve haulage practices, J. J. Plasky, Sept.	116
Jeep meets transportation needs, Nov.	*108
Locomotive field frames rebuilt, W. E. Wolfe, July	*106
Louisville & Nashville R.R. orders 22 coal locomotives, Apr.	158
Low-cost scooter, Oct.	*120
Mechanical loading of the coal mines of tomorrow, June	*82
Mor from wheels and axles, F. W. Richart, Aug.	*105
New coal docks planned for Toledo lake trade, Jan.	102
Old mine cars rebuilt for new uses, Feb.	*118
Railroad locomotives discussed by AMC, May	142
Railroad sidings supported by wall with concrete cribbing, Sept.	*124
Ramps handle 2,000 tons per shift, June	130
Safety grip protects car hitching, Feb.	*124
Shaker conveyor handles rock disposal, Aug.	*120
Shields on switch throws minimize rope accidents, Sept.	*122
Shuttle car discharge controlled by automatic belt dispatching, July.	*82
Stiffer plates solve frame trouble, Apr.	*124
Supplies distributed with pony and sled in Williams mine, Kenneth Snarr, Feb.	*96
Suspension bridge lifts belt conveyor at 19-deg. angle, Nov.	*114
Tail-rope hitch for scrapers, Feb.	*122
Track cleaner, shop-built, May.	*130
Trackless mining at Wattis, Nov.	*78
"Trike" travels in low coal, May.	*126
Trolley-shoe life increased by maintenance, Mar.	*98
Trolley-wire clamp supports rubber guard, Mar.	*96
Truck safety blocks locked in place, Apr.	*122
Tri-County Coal Operators' Assn. and Western Kentucky Coal Operators Assn. merge to form new association, June.	196
Truck Mines	
Efficient truck mine, Cedar Grove Mining Co. J. H. Edwards, Oct.	*88
Guards and blocking are truck safeguards, June	*132
Virginia and West Virginia truck mines haul on rubber, Sept.	*91
United Mine Workers Assn.	
First pension payment made from fund, Oct.	*125
Lewis maintains Krug committee futile, Feb.	148
Lewis proposes share-the-work plan; U.M.W.A. outlines new demands, Nov.	117
John L. Lewis reports that U.M.W. quits A.F.L., Jan.	97
Union-bargaining order dissolved by court, Dec.	144

T

Taxation

Coal companies hit school coal tax in Pennsylvania, Mar.	135
Injunction bars local coal tax in Pennsylvania, May	180
New hazard (e), July	73
Pennsylvania companies fight local coal taxes, Oct.	166
Pennsylvania court slashes local coal taxes, Aug.	166
Pennsylvania court upholds local tax law, June	189
Pennsylvania strip tax upheld by court, Aug.	124
Pennsylvania to tax stripping machines, July	116

U

United Mine Workers Assn.	
First pension payment made from fund, Oct.	*125
Lewis maintains Krug committee futile, Feb.	148
Lewis proposes share-the-work plan; U.M.W.A. outlines new demands, Nov.	117
John L. Lewis reports that U.M.W. quits A.F.L., Jan.	97
Union-bargaining order dissolved by court, Dec.	144

Utilization

- Anthracite breaker slate to be used commercially, July *134
 Coal for a growing nation, K. C. Richmond, Jan. *58
 Fuel gas to be made from anthracite silt, Apr. *127
 Radiant-heating in Birmingham's coal-heated welfare building, Sept. *127
 Tests of pelletizing anthracite fines by extrusion—Lehigh meeting, June.... *156

V

- Valves on water tanks protected, Dec.... *104
Ventilation
 Fan change helps ventilation, W. E. Crane, July *89

- How are you on ventilation? quiz, Oct. 114
 Improper vs. systematic ventilation, W. R. Kirkwood, May *122
 New Black Diamond mine, Nov. *90
 Ventilation and drainage of the coal mines of tomorrow, June.... *99

W

- Waste Disposal**
 Rock disposal handled by self-feeding shaker, Aug. *120
 Schuylkill River to be cleaned up, July.. *120
Welding
 "Horseshoe" attached to dipper stick cuts repairs, July *112

- Hose leaks located with portable tank, Apr. *118
 Hose support facilitates welding work, May *126
 Output of coal cars speeded by welding, Aug. *144
 Pulleys and gears welded without a pre-heating furnace, July *112
 Stiffener plates solve frame trouble, Apr.*124

- West Virginia Coal Assn. — Continued scholarships won by West Virginia students, Oct. *125

- West Virginia Coal Mining Institute
 Election of officers, Jan. *118
 Meeting held jointly with Central Appalachian Section, Jan. *114
 Report of meeting, July *128

- Western Kentucky Coal Producers Assn. — Formed of two associations, June.... *196

MINE AND COMPANY INDEX

A

- Alabama Power Co.
 Belt winder facilities conveyor moves, Sept. *122
 Modern mining at Gorgas, Sept. *80
 Spider sluices duckbill automatically, Dec. *106
 Wheels salvaged by grinding, Sept. *124
 American Coal Co.
 Grease fitting added to brake turnbuckle, Oct. *120
 Anchor Coal Co.
 Guessing contest on supply costs, Mar. 90
 Handling disputes at the mine, V. B. Stith, Mar. *58

B

- Bellingham Coal Mines
 Fan change helps ventilation, W. E. Crane, July *89
 Black Band Coal Co.
 Calculator reduces payroll errors, Oct. *122
 Black Diamond Coal Mining Co.
 New mine, Nov. *90
 Paddle switch protects vibrating screen, Dec. *106
 Special elevator cleans out boots, Nov. *114
 Blue Diamond Coal Co.
 Air-powered gates facilitates loading at headhouse, Jan. *94
 Boone County Coal Corp.
 Large jeep meets transportation needs, Nov. *108
 Boots-Lippert Corp.
 Shovel and dragline stripping, Sept. *102
 Brophy Coal Co.
 Washery small but efficient, Sept. *98
 Buckingham Coal Co.
 Wins state safety award, Apr. *164

C

- Canmore Mines, Ltd.
 Safety grip protects car hitching, Feb. *124
 Carrs Fork Coal Co.
 A super writes a safety letter, P. A. Grady, Mar. *92
 Cedar Grove Mining Co.
 Efficient truck mine, J. H. Edwards, Oct. *88
 Cedar Valley Mining Corp.
 Tractor loader a versatile pit unit, Aug. *118
 Climax Molybdenum
 Tail-rope hitch for scrapers, Feb. *122
 Clinchfield Coal Corp.
 Six miners die in mine "bump," June.... *176
 Coast Fuel Corp.
 Southport ups Oregon capacity, G. W. Hilton, Mar. *79
 Consolidation Coal Co.
 Automatic belt dispatching, July.... *82
 Concrete cribbing supports 600-ft. wall, Sept. *124
 Dual-duty locomotives at Consol, Apr. *96
 Greasy parts cleaned without hazard, June *132
 Owing's No. 32 doubles efficiency with new facilities, J. H. Edwards, May.... *114
 Pipe protects 2,500-volt cable, Jan. *74
 Quonset portal construction, George Keat, May *96
 Rod replaces flexible cutting-machine control, July *110
 Safety calendar, Sept. *76
 Tall chimney and hood confines forge fumes, Jan. *92
 "Trike" travels in low coal, May.... *126
 World's champion coal loading crew, Oct. *126
 Copperhead Coal Co.
 Fire strikes tippie and stored coal, Aug. *150
 Crozer Coal & Land Co.
 Auger mining ups coal recovery, Dec.... *76

D

- DeBardeleben Coal Corp.
 Machines and parts cleaned in shop, Feb. *120
 Delmont Fuel Co.
 New mine uses short cables with coupling connectors, Jan. *92
 Domestic Coal Co.
 Truck tippie features one-man operation, May *128

E

- Ebensburg Coal Co.
 Double u-type pins support crossbars, Jan. *94
 New loader works this seam, Jan. *80
 Elk River Coal & Lumber Co.
 Pays first miner pensions, Nov. *130

F

- F & S Coal Co.
 Auger mining ups coal recovery, Dec.... *76
 Floyd Elkhorn Coal Co.
 Middle Creek mine has high efficiency, Aug. *80
 New cutter control saves time, June.... *128
 Frick, H. C., Coke Co.
 Working-place model, Sept. *138

G

- Gilliam & Hodges Co.
 Miners get suspended sentences, Aug.... *162
 Glen Alden Coal Co.
 Boreholes replace shaft lines, Benjamin Gleason, Mar. *76
 Compensation sought for vacation period, Nov. *154
 Glogora Coal Co.
 Automatic siphon valve needs no priming, Jan. *90
 Grafton Coal Co.
 Concentrated stripping, J. H. Edwards, Aug. *84

H

- Hanna Coal Co.
 Annual picnic, Nov. *118
 Bulldozer's rubber tires protect coal, Apr. *122
 Cutouts and connectors located near shovel, May *128
 Fine coal tabled and dried, R. E. Zimmerman, Jan. *84
 Guards and blocking are truck safe-guards, June *132
 Making the roof safe, Don Couch, July. *104
 Plans buildings for employees, Jan. *136
 Safety slogan awards, Apr. *160
 Safety slogan prize is N. Y. trip, Feb.... *158
 Shock to dipper hinge pins relieved, Aug. *120
 Shovel's circle rails changed in three days, Sept. *118
 Stiffener plates solve frame trouble, Apr. *124
 Torque limiters protect shovel drive, July *108
 Two-story drill speeds highwall preparation, Apr. *120
 Wrecker-Service truck works night and day, Apr. *124
 Homestead Coal Co., Earlinton, Ky.
 Preparation at Homestead, Gilbert & Richart, May *106
 Howard Collieries, Norfolk & Western Ry.
 Car stop features reliability and easy application, Oct. *122
 Hudson Coal Co.
 The anthracite water problem, Otto Griffiths & Thompson, Oct. *93
 Exhaust hoods protect sand-drying personnel at Lorre, Nov. *112
 Fog gun cuts dust and gas after blasting, Aug. *114
 Improved steam table speeds drying of samples, Dec. *102
 Primary crusher facilitates sampling, Oct. *118
 Student mine corps resumed, Dec. *146
 Hutchinson Coal Co.
 Derailment or bent pins actuate fingers to stop conveyor, Oct. *116

I

- Imperial Coal Co.
 Shaker mining under tender top at Eagle, Dec. *78
 Island Creek Coal Co.
 Building leaders via foremen's clubs, July *74
 40-year veterans, June *178

J

- J. P. & R. Coal Co.
 Truck mines on rubber, Sept. *91
 Jermyn-Green Coal Co.
 Honored for safety work, Mar. *130
 Johnstown Coal & Coke Corp.
 Company scholarship awarded miner's son, July *118
 Shop-built press handles all jobs, Jan.... *90
 Two mining scholarships offered, Apr. *160
 "Goesinto" helps officials get round, June *128
 Jones & Laughlin Steel Corp.
 Safety hats accepted, miners and walk-out, Feb. *160
 Shop modernization at Vesta, July.... *92
 Julian
 Co-op mine shuts down as owner-miners picket, Aug. *124

K

- Kaiser Co., Inc.
 Concentration at Sunnyside, Dec. *92
 Water powers timber jack, Dec. *104
 Kehoe-Berge Coal Co.
 Honored for safety work, Mar. *130
 Kentucky Straight Creek Coal Co.
 Rescue workers open mine tomb, Oct.... *168
 Workers remove miners' bodies entombed since explosion, Nov. *118
 King's Mine, Princeton, Ind.
 Supervisors honored for mine-fire heroism, Feb. *164

L

- Lake Superior Coal Co.
 Lamp-battery washer cuts time and maintenance, Jan. *88
 Lehigh Navigation Coal Co.
 Anthracite breaker slate to be used commercially, July *131
 Retirement-plan benefits improved, Nov. *128
 Lehigh Valley Coal Co.
 Eight miners killed in blast, Jan. *126
 Law violations charged, Feb. *156
 Safer signaling for shafts, E. B. Wagner, Dec. *82
 Three mine officials fined in blast trial, Apr. *166
 Lillybrook Coal Co.
 Model tippie, Sept. *138
 Lion Coal Corp.
 Moving controls saves time, Nov. *110
 Trackless mining at Wattis, Nov. *78
 Lorado Coal Mining Co.
 Cars changed while belt runs, Aug. *116
 Lorain Coal & Dock Co.
 How to operate a loading machine safely, Roy Schell, Aug. *110
 Old mine cars rebuilt for new uses, Feb. *118
 Safe drilling, Roy Schell, Mar. *92
 Luzerne Anthracite, Inc.
 Borough of Kingston, Pa., awarded damages, Feb. *164

M

- Matney Coal Co.
 Truck mines haul on rubber, Sept. *91
 Maumee Collieries Co.
 Electrical progress, Bennington & Richart, Oct. *102

N

- New Jellico Coal Co.
 Haulage improvements, Aug. *92
 Self-feeding shaker conveyor handles rock disposal, Aug. *120
 New River & Pocahontas Consolidated Coal Co.
 Slate fall on man-trip kills give, Sept.... *148

O

- Oak Ridge Mine
 Neon lamps spot blown fuses, Feb. *120
 Olga Coal Mining Co.
 Derailment accident, Dec. *146
 Slate fall kills three in man-trip, Nov.... *124

P

Peerless Coal Corp.	
File complaints charging unfair labor practices, Oct.	166
Six-weeks stoppage ends, Nov.	118
Penowia Coal Co.	
Island mining with shakers, Oct.	*86
Philadelphia & Reading Coal & Iron Co.	
"P & R Pete" safety cartoon, Sept.	*75
Preparations at St. Nicholas, Aug.	*94
Tunnels reopen old sections, R. R. Richart, Apr.	*98
Pittsburgh Coal Co.	
Shop-built track cleaner utilizes old equipment, May	*130
Smokeless-coal plant nearing completion, Oct.	*152
Pittsburgh Consolidation Coal Co.	
Pilot gasification plant, Dec.	*112
Pittsburg & Midway Coal Mining Co.	
Spring-suspended grinder, Feb.	*120
Pond Creek Colliery	
Miners win 100 percent first-aid certification, June	196
Powellton Coal Co.	
Spring absorbs shocks from cable-reel motor, Jan.	*90
Powhatan Mining Co.	
Community receives athletic stadium, Dec.	*111
Powhatan Point presents field for high school sports, Nov.	130
Princess Elkhorn Coal Co.	
Scholarship plan altered, Apr.	162
Princeton Mining Co.	
Blast kills 13, Sept.	154

R

Red Jacket Coal Corp.	
The big question, C. P. Ferguson, Jan. ...	84
Creates two scholarships, May.	136
Honors safety winners, Apr.	*130
How to improve haulage practices, J. J. Plasky, Sept.	116

Scholarship awards created, Oct.	170
Reitz Coal Co.	
Pensions for non-union workers, Dec.	144

S

St. Anthony Mining & Development Co.	
Hard-facing churn-drill bits, Oct.	*118
Sahara Coal Co.	
Helping coal via public talks, H. C. Woods, May	*118
Simpson Creek Collieries Co.	
Coil spring reduces strain on trailing cable, Apr.	*116
Building up Galloway, J. H. Edwards, Apr.	*78
Sinclair Coal Co.	
Grant made to Kansas University, Jan. ...	136
South-East Coal Co.	
Duckbill working cycles, B. F. Gish, May ...	*102
South Mine Co.	
Offers to sell mine to workers, Aug.	150
Springfield Coal Corp.	
Low loaders serve new mine, J. H. Edwards, Mar.	*62
Sunnyhill Coal Co.	
Continuous mining machine unveiled, Dec.	*84

T

Tecumseh Coal Corp.	
Radio phones in stripping, July	*79
Tennessee Coal, Iron & R.R. Co.	
Alabama explosion kills 11, Sept.	158
Controlling dust at coal mines, J. C. Gray, Jan.	*76
Improper vs. systematic ventilation, W. R. Kirkwood, May	122
Tizen Bros. Coal Co.	
Truck mines haul on rubber, Sept.	*91

U

Union Pacific Coal Co.	
Sets new safety mark, Mar.	*114

United Electric Coal Co.	
Electrician builds model shovel, Aug.	*124
Fidelity mine receives two safety awards, May	164
U. S. Coal & Coke Co.	
400 employees attend Beckley banquet, Feb.	154
Suspension bridge lifts belt conveyor at 19-deg. angle, Nov.	*114
United States Fuel Co.	
Awards university scholarship, Sept.	152
United States Mine	
Power cable lowered with friction blocks, Nov.	*110
Utah Fuel Co.	
Bulldozer handles many jobs underground, May	*132

V

Van Sant Coal Co.	
Truck mines on rubber, Sept.	*91

W

Warner Collieries Co.	
Rubber pipe handles acid water, Feb.	*122
Weirton Coal Co.	
Sectionalization at Isabella, Kemp & Baker, Feb.	*102
West Virginia Coal & Coke Corp.	
Ambulance car built for patient's comfort, Mar.	*96
Emergency fire-fighting pump easily moved, Oct.	*116
Shields on switch throws minimize rope accidents, Sept.	*122
Westmoreland Mining Co.	
Choosing a safety director, P. W. Graff, July	*98
Williams Coal Co.	
Mining with power duckbills, Kenneth Snarr, Feb.	*96
Wingert Contracting Co.	
Stripper reworks old pits, Apr.	*86
Wyatt Coal Co.	
High extraction with duckbills, Sept.	*94

AUTHOR'S INDEX

- ANDERSON, R. L. & W. H. Young.** Sales of loaders and cleaner, Feb. 87
Armstrong, George. Grover Rosenbaum— U.S.A., May *79
- BAKER, Donald J. & G. L. Kemp.** Sectionalization at Isabella, Feb. *102
Bazley, J. Robert, Inc. Tandem units boost dragline efficiency, R. R. Richart, Feb. *90
Bennett, H. D. Mine timber through forestry, Dec. *90
Bennington, Evans & R. R. Richart. Maumee electrical progress, Oct. *102
Bird, Byron M. Heavy medium in the Baum jig, Feb. *107
Brewster, Fred. Charles Lhoneux—Belgium, May *82
- CATZ, Paul. Adrianus Roelands—Holland,** May *92
Christie, John C. Rudolf Trosien—Germany, May *80
Cook, Carl. Much haste—little speed, June 126
Couch, Dan. Making the roof safe, July. 104
Crane, Warren E. Fan change helps ventilation, July *89
- EDWARDS, J. H.** Belt selection and installation, Oct. *80
 Building up Galloway, Apr. *78
 Concentrated stripping, Aug. *84
 Efficient truck mining, Oct. *88
 Low loaders serve new mine, Mar. *62
 Modern costing helps stripper *70
 New facilities double efficiency, May. *114
 Shop modernization at Vista, July. *92
Elliott, Randle. Bill Coleman—England, May *86
- FERGUSON, C. P.** The big question, Jan. 84
Fisher, Elizabeth. Michael Pazdziernik— Poland, May *88
Fordyce, Robert G. Frank Krulcik— U.S.A., May *77
- GILBERT, Frank W. & R. R. Richart.** Preparation at Homestead, May. *106
Gish, Ben F. Duckbill working cycles, May *102
Gleason, Benjamin. Boreholes replace shaft lines, Mar. *76
Grady, P. A. A super writes a safety letter, Mar. 92
- Graff, Paul W.** Choosing a safety director, July *98
Gray, James C. Controlling dust at coal mines, Jan. *76
Griffiths, J. T. H. H. Otto & W. E. Thompson. The anthracite water problem, Oct. *93
- HILTON, Francis W.** Southport ups Oregon capacity, Mar. *79
Hugus, C. E. Better motor maintenance, Oct. *99
- JESSUP, Alpheus W. Massao Ando—** Japan, May *84
- KEAT, George.** Quonset portal construction, May *96
Kemp, G. L. & D. J. Baker. Sectionalization at Isabella, Feb. *102
Kirkwood, Walter R. Improper vs. systematic ventilation, May 122
- LEOPOLD, Herbert. Harry Haddow—** Australia, May *85
- MARSH, Michael. Jean Scholl—France,** May *90
Marrus, E. H. The crisis in strip mining, Dec. *88
Moyer, Forest T. Explosions mar safety record, Feb. 85
- OSBORNE, Chas. A.** Radio phones in stripping, July *79
Otto, H. H., J. T. Griffiths & W. E. Thompson. The anthracite water problem, Oct. *93
- PARKE, F. E.** Permanent magnets for coal, Aug. *102
Perfater, J. William. High extraction with duckbills, Sept. *94
Plasky, J. J. Cutting haulage accidents, Aug. 112
 How to improve haulage practices, Sept. 116
- RICHART, Fred W.** More from wheels and axles, Aug. *105
- Richart, Ralph R.** Tandem units boost dragline efficiency, Feb. *90
 Tunnels reopen old sections, Apr. *98
Richart, R. R. & Evans Bennington. Maumee electrical progress, Oct. *102
Richart, R. R. & F. W. Gilbert. Preparation at Homestead, May. *106
Richart, R. R. & O. P. Swartz. Preparation at St. Nicholas, Aug. *94
Richmond, K. C. Coal for a growing nation, Jan. *58
- SCHELL, Roy.** How to operate a loading machine safely, Aug. 110
 Safe drilling, Mar. 92
Setter, Joseph A. Grounding off-track equipment, Sept. *107
Snarr, Kenneth. Mining with power duckbills, Feb. *96
Stanbury, W. A., Jr. Selling safety to the miner, Sept. *74
 Teamwork for safety, Apr. *92
Steiger, Andrew. Gerasim Zaporozhets— Russia, May *95
Stephens, Victor C. Efficiency through time study, Apr. *105
 Production management, Mar. *84
Stith, Van B. Handling disputes at the mine, Mar. *58
Swartz, Otto P. & R. R. Richart. Preparation at St. Nicholas, Aug. *94
- THOMAS, Edward.** Suspension roof support, July *86
Thompson, W. E., H. H. Otto & J. T. Griffiths. The anthracite water problem, Oct. *93
- VAN DENBERG, Joseph, Jr. Gakhali Turi—India,** May *94
Van Oot, Dr. B. H. Training for safety, Oct. *77
- WAGNER, E. B.** Safer signaling for shafts, Dec. *82
Waters, G. W. Oil treatment of coal, Nov. 97
Wolfe, W. E. Rebuilding locomotive field frames, July *106
Woods, Henry C. Helping coal via public talks, May *118
- YOUNG, W. H. & R. L. Anderson.** Sales of loaders and cleaners, Feb. 87
- ZIMMERMAN, R. E.** Fine coal tumbled and dried, Jan. *84

